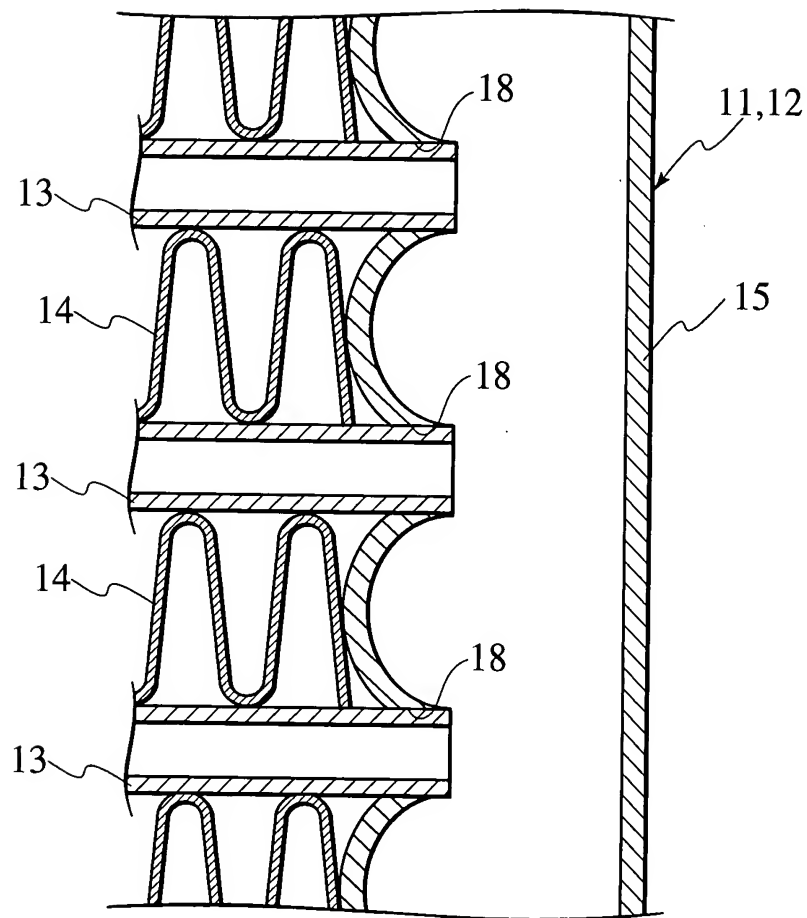


FIG. 1

FIG. 1 is a perspective view of a multi-layered, expandable mesh structure 10. The structure consists of multiple layers 11, 12, 13, 14, and 15, each featuring a series of interconnected, upward-pointing, triangular or conical protrusions 16. The layers are stacked and connected by vertical support members 17. The entire assembly is shown in an expanded state, with arrows indicating the direction of expansion. A small inset shows a detail of the protrusions 16.

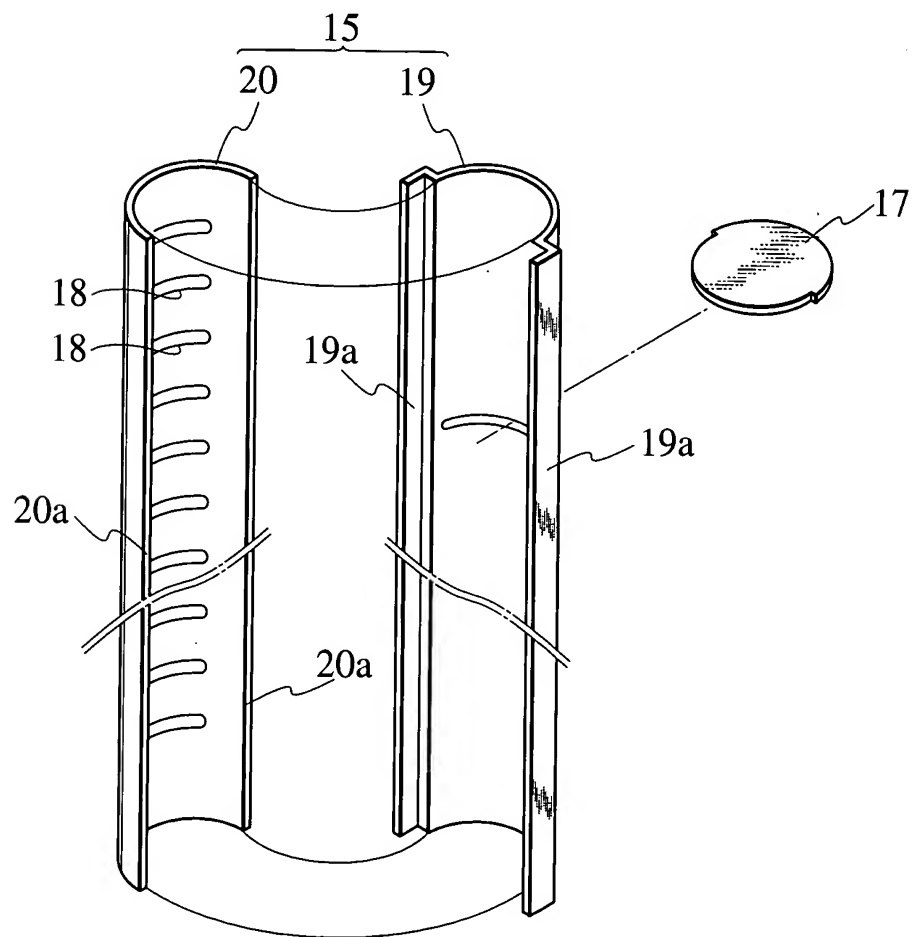
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FIG.2



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FIG.3



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FIG.4A

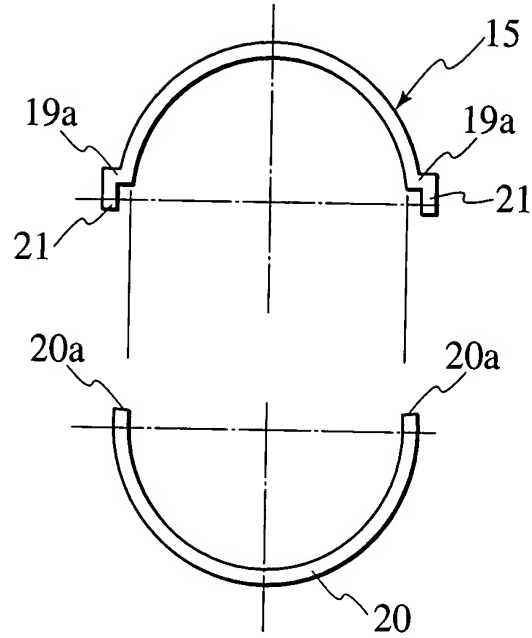
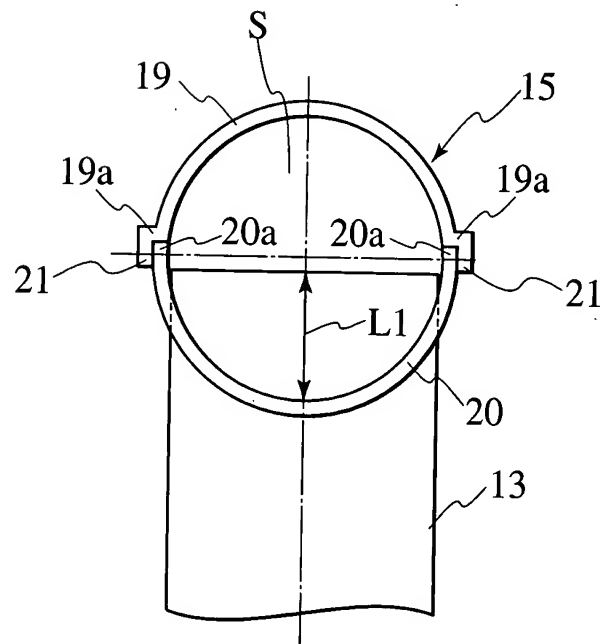


FIG.4B



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FIG. 5

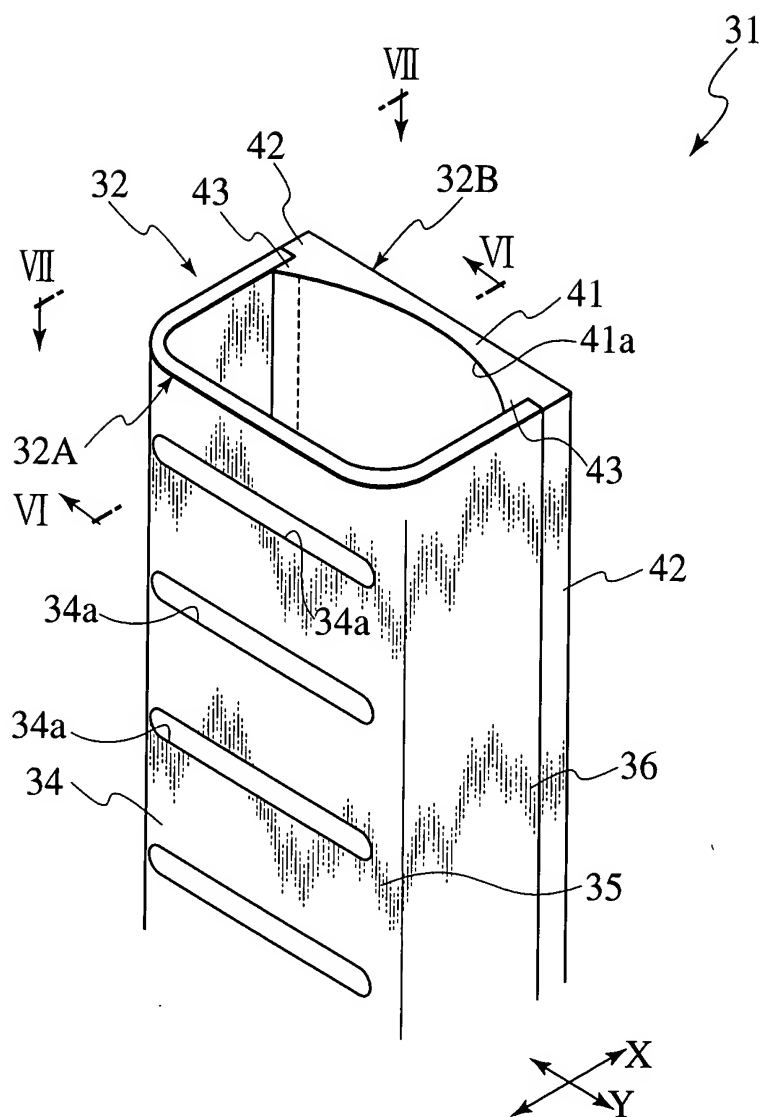
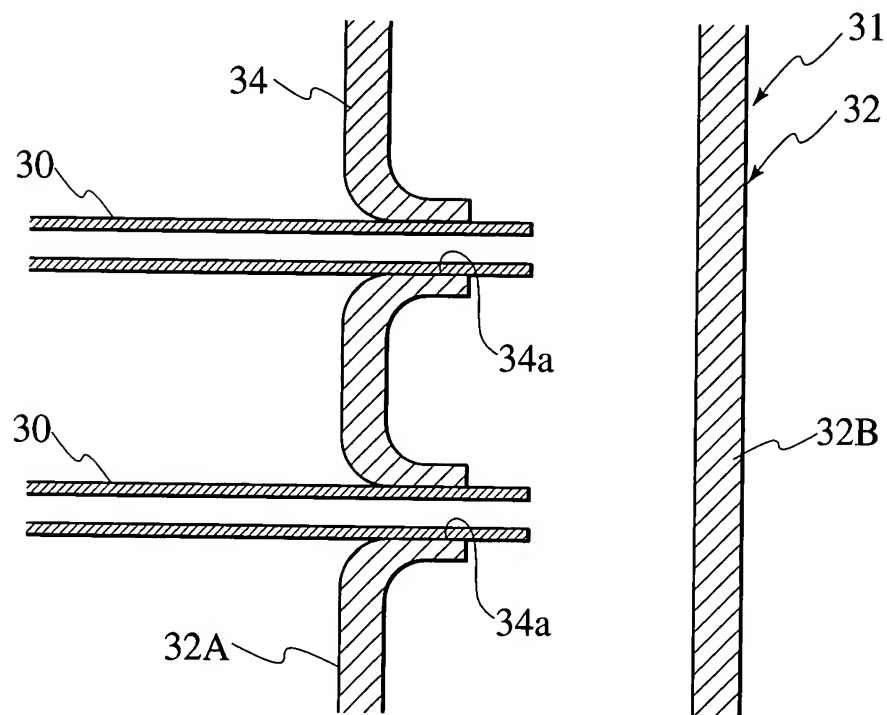


FIG.6



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FIG. 7A

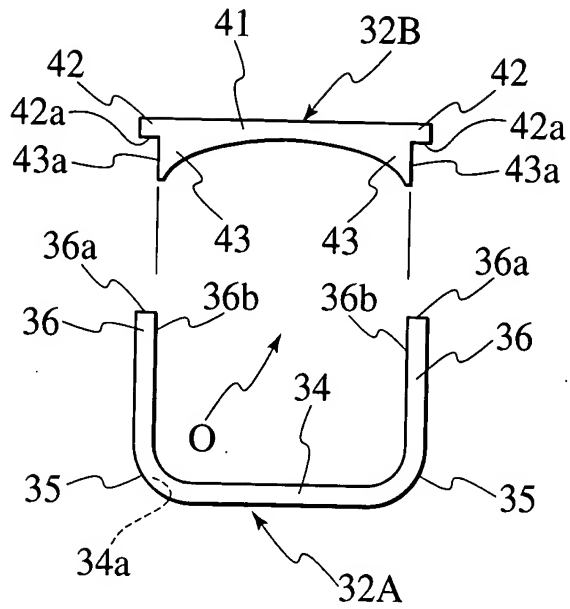
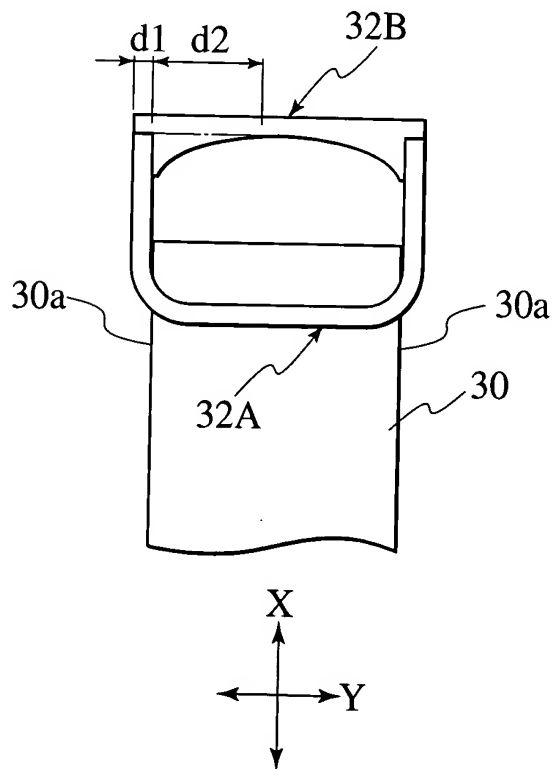


FIG. 7B



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FIG. 8B

FIG. 8A

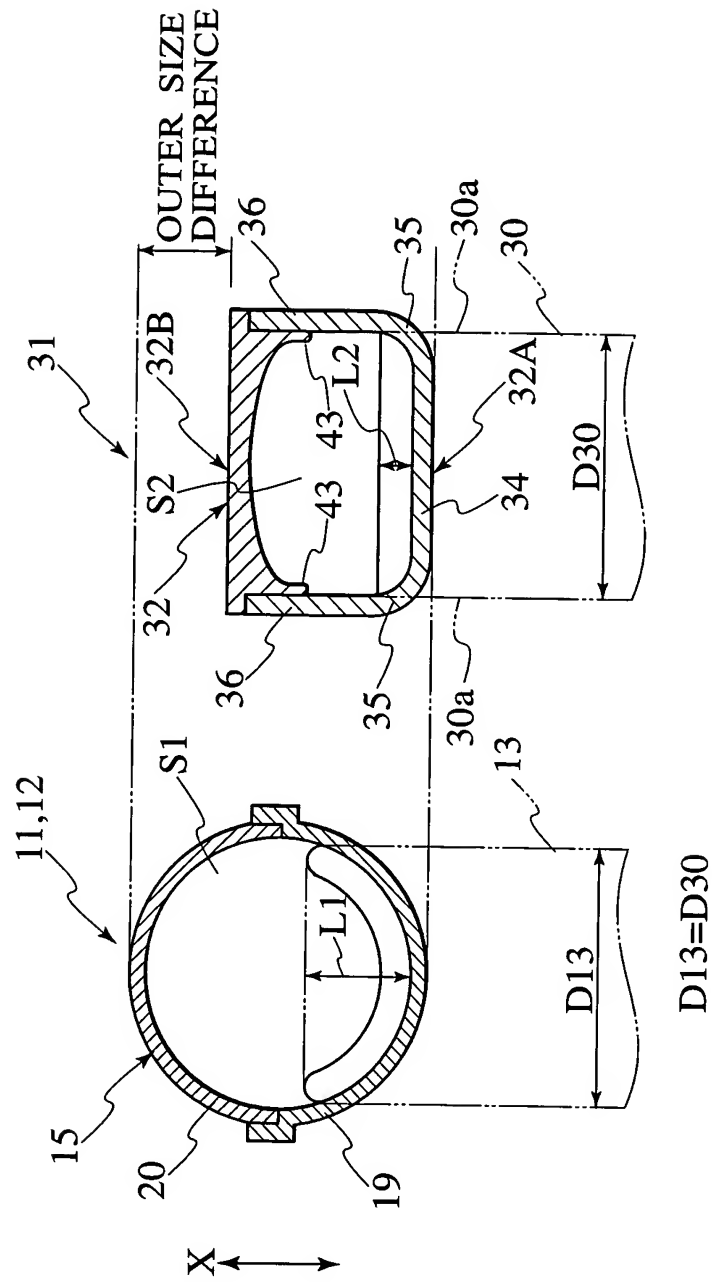


FIG. 9B

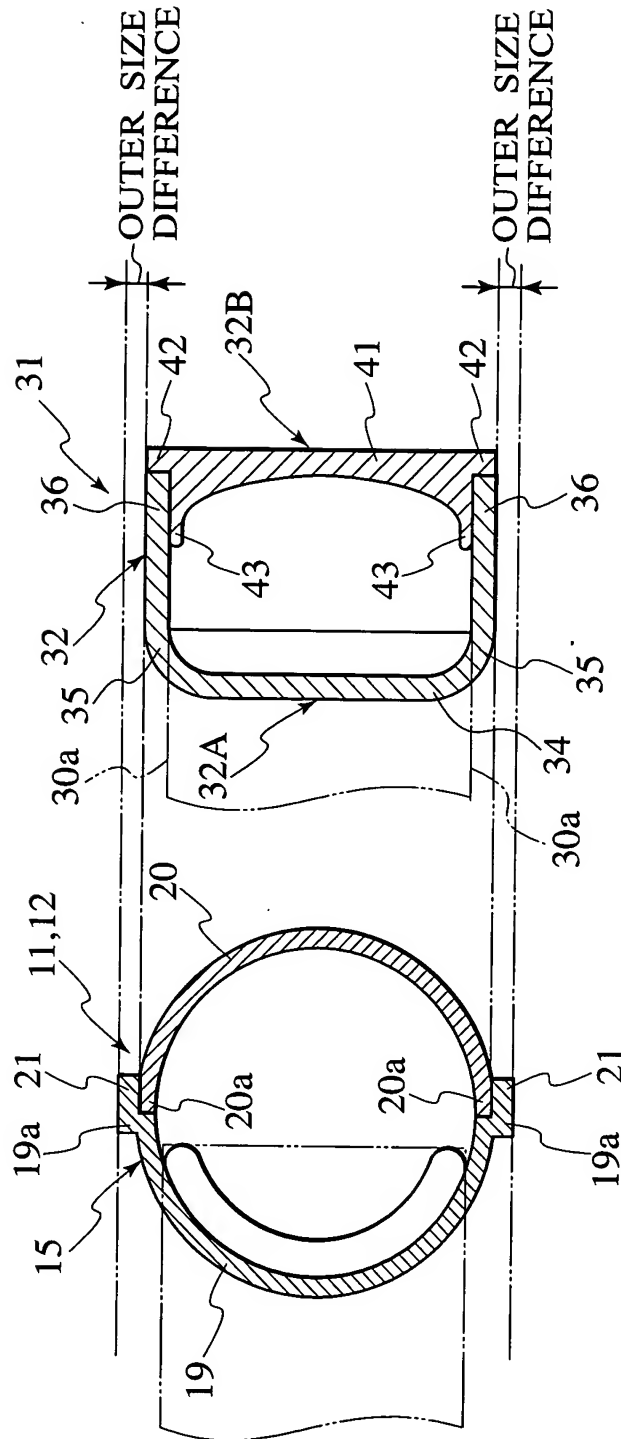
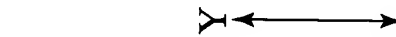


FIG. 9A

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FIG.10A

FIG.10B

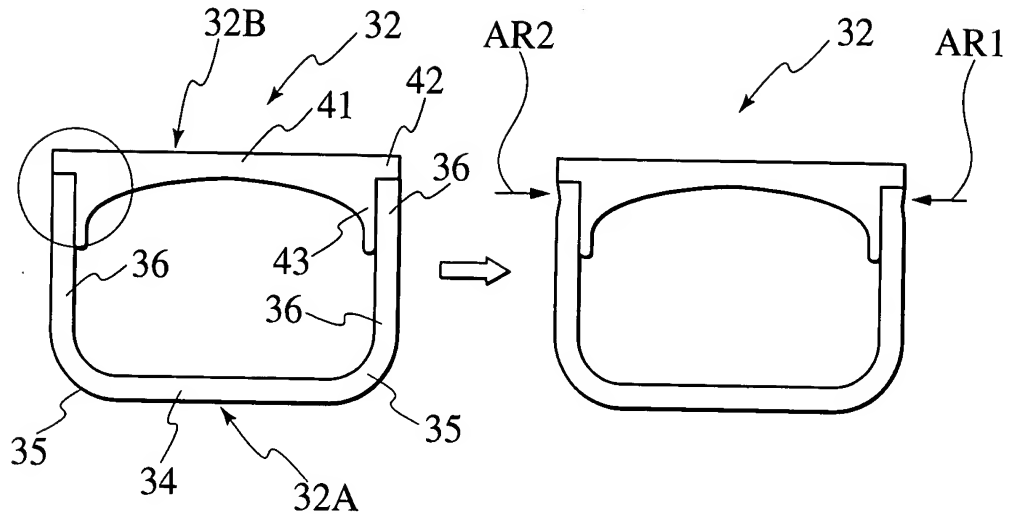
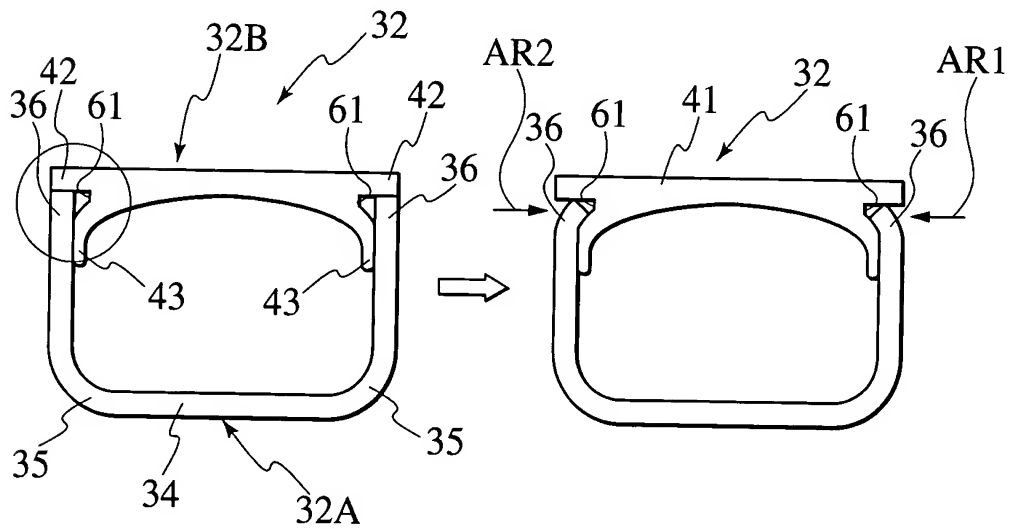


FIG.11A

FIG.11B



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FIG.12A

FIG.12B

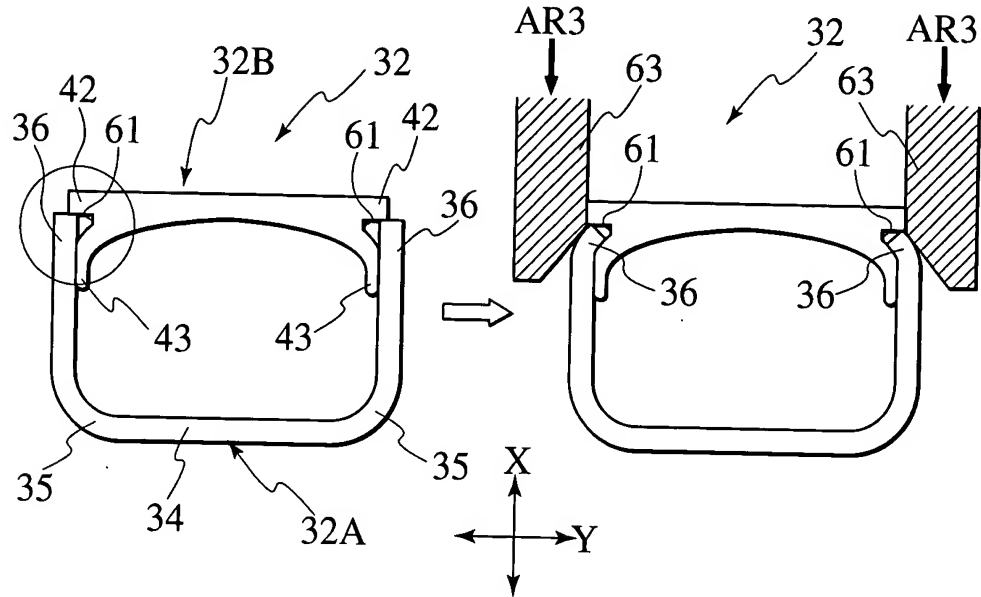
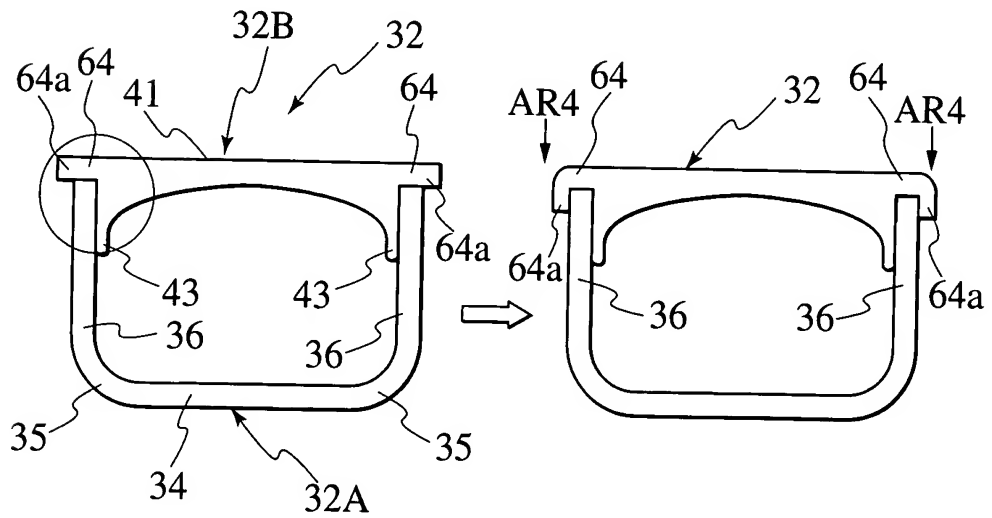


FIG.13A

FIG.13B



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FIG.14A

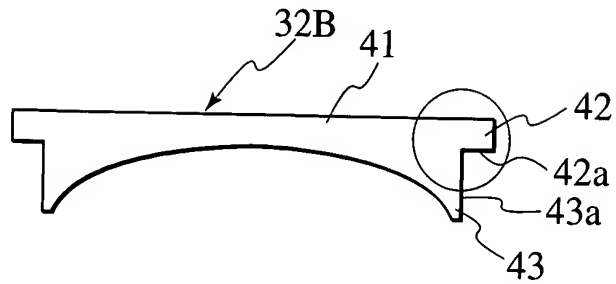


FIG.14B

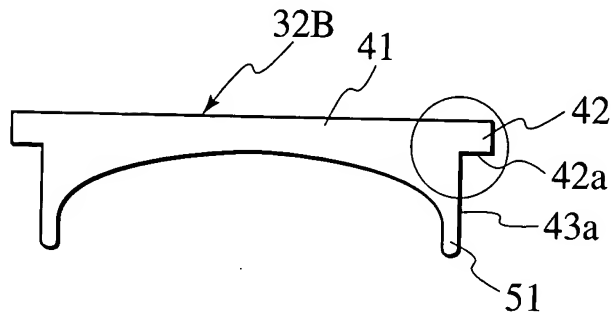


FIG.14C

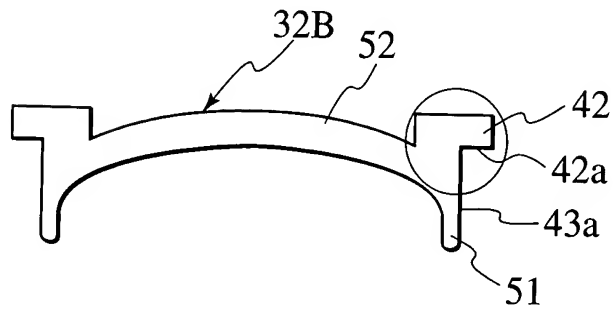


FIG.14D

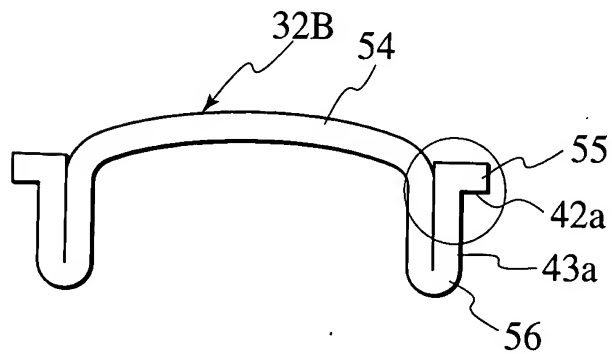


FIG.15A

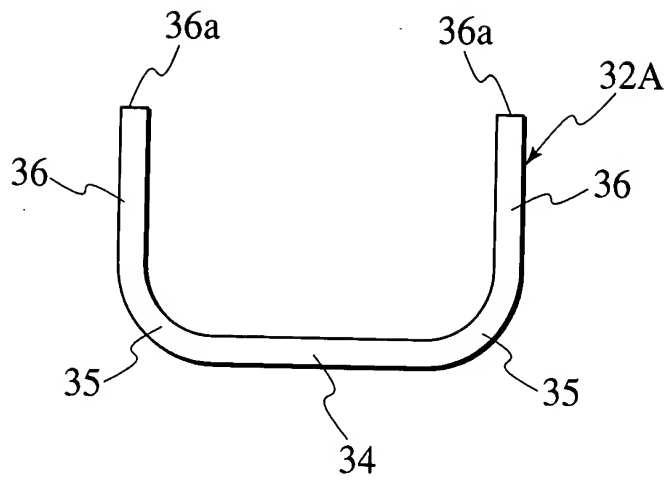


FIG.15B

